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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/742,751	12/20/2000	Tatsuya Anma	SIMTEK5685	6449
	7590 03/07/2002			
Ernest A. Be	utler		EXAMINER	
Suite 945 500 Newport Center Drive Newport Beach, CA 92660			GONZALEZ, JULIO C	
		•	ART UNIT	PAPER NUMBER
			2834	
			DATE MAILED: 03/07/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)					
	09/742,751	ANMA ET AL.	B				
Office Action Summary	Examiner	Art Unit					
·	Julio C. Gonzalez	2834					
The MAILING DATE of this communication app)	eet with the correspondence a	address				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered fimely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to communication(s) filed on							
	 is action is non-final.						
3) Since this application is in condition for allowa closed in accordance with the practice under the	nce except for forma	al matters, prosecution as to	the merits is				
Disposition of Claims							
4) Claim(s) 1-5 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)⊠ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>20 December 2000</u> is/are: a)⊡ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)	. ,						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 No	erview Summary (PTO-413) Paper fitice of Informal Patent Application (Fer:					

Art Unit: 2834

DETAILED ACTION

Drawings

- 1. The drawings are objected to because in figure 3, the column headers are unreadable. Examiner cannot tell what the numbers/figures are about since the column headers are too shady. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: protective coating 25. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the 120° to 140° electrical angle of the magnets set to the rotational axis must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Art Unit: 2834

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claim 2 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Applicant discloses in claim 2 that the magnet electrical angle is equivalent to the length of time a magnetic pole travels two pole pitches and that in turn is equivalent to the length of time a force (voltage completes a cycle).

If the electrical angle is measured in degrees and the time in seconds, how can the angle and time be equivalent? Is the length of time for the electromotive force completing a cycle around the rotor (rpm) or another kind of cycle (e.g. sinusoidal cycle)? What led the applicant to conclude that the electrical angle is equivalent to the traveling time of a pole or that it is also equivalent to a time of voltage force?

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 2834

In claim 1, what "pluralities" are the permanent magnets changing? What is considered a "regular" interval? 120 degrees? 140 degrees? What are the intervals measured in time or degrees? What is the relatively rotatable, the rotor? The magnets? Stator? What is considered "relatively"? Almost moving?

In claim 4, do the coil windings turn at all? Are the coil windings fixed all the time?

In order to advance prosecution in the merits, the Prior Art will be applied as best understood by the examiner.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyao et al (Patent # 4,739,203)...

Miyao et al discloses permanent magnets 1, 2, armature winding 27 (see figures 4, 8, 17) and that the magnetic poles of the magnets have an electrical angle of 120 degrees (column 2, lines 1-4).

Page 5

Application/Control Number: 09/742,751

Art Unit: 2834

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyao et al in view of Tajima et al.

Miyao et al discloses permanent magnets 1, 2, armature winding 27 (see figures 4, 8, 17) and that the magnetic poles of the magnets have an electrical angle of 120 degrees (column 2, lines 1-4).

However, Miyao et al does not disclose the electrical machine to be a generator.

On the other hand, Tajima et al discloses for the purpose of reducing cogging torque, an electrical machine that can function as a motor or a generator (see abstract).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design a rotating machine as disclosed by Miyao et al and to modify the invention by making the electrical machine function as a generator for the purpose of reducing cogging torque as disclosed by Tajima et al.

Art Unit: 2834

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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December 28, 2001